

NEGLIA ENGINEERING ASSOCIATES - CONSULTING ENGINEERS & LAND SURVEYORS - CIVIL • MUNICIPAL • LAND SURVEYING • PLANNING BOROUGH OF CARLSTADT ~ NEW JERSEY ~ ROADWAY, DRAINAGE, SEWER & EROSION IMPROVEMENTS ENGINEER'S ESTIMATE ~ 05.15.14		
ITEM NO.	PROJECT LOCATION	ITEM ESTIMATE
1	Kero Road	\$423,930.02
2	Jomike Court	\$309,172.33
3	Barell Avenue	\$467,147.02
4	Eastern Way	\$255,693.76
5	Starke Road	\$952,987.52
6	Tiger Dams and Equipment Costs	\$1,278,860.00
7	455 16th Street (Stormwater Drainage Improvements)	\$850,000.00
8	Project Permitting, Surveying, Engineering, Construction Management Fees	\$450,000.00
Total Estimate		\$4,987,790.65

Numerous roads within the Borough (Items #1 through Item #7) become flooded during emergent events such as Hurricane Sandy. These events have damaged roadways which provide access to businesses and critical facilities throughout the Borough. At this time, roadways require reconstruction and improvements to provide this access.

The Borough requires Tiger Dams and Equipment (Item#8) to address and protect life and property duirng future storm events. In addition, the equipment would be utilized to address current siltation and sedimentation issues throughout the Borough prior to and during emergent conditions. The Borough-owned drainage system within an easement (Item #9) is substantially damaged due to storm surcharge and flooding. The system has become filled with debris and sediment. With this system clogged with sediment and debris, ponding and flooding occur that will be remedied through sediment and debris removal.



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BOROUGH OF CARLSTADT ~ NEW JERSEY ~ ROADWAY PROJECTS

ENGINEER'S ESTIMATE ~ 05.15.14

Kero Road, 44' Wide X 2500' Long					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ITEM TOTAL
B1	Mobilization/ Demobilization	LS	1	\$5,000.00	\$5,000.00
B2	Maintenance & Protection of Traffic	LS	1	\$5,000.00	\$5,000.00
B3	Traffic Flaggers	M.H.	160	\$58.03	\$9,284.80
B4	Construction Photographs	LS	1	\$1,000.00	\$1,000.00
B5	Site Clearing	LS	1	\$2,000.00	\$2,000.00
B6	Milling, Variable Depth 2"-3"+ Thick	S.Y.	1100	\$3.50	\$3,850.00
B7	Hot Mix Asphalt Surface Course, HMA 9.5M64, 2"± Thick	TON	1250	\$80.00	\$100,000.00
B8	Hot Mix Asphalt Base Course, HMA 19M64, 4"+ Thick	TON	840	\$80.00	\$67,200.00
B9	Dense Graded Aggregate, 6" Thick	S.Y.	2750	\$9.00	\$24,750.00
B10	Excavation, Unclassified	C.Y.	930	\$45.00	\$41,850.00
B11	Concrete or Belgian Block Curb (To Match Existing)	L.F.	3150	\$28.00	\$88,200.00
B12	Reconstruct Inlets	EA.	10	\$1,750.00	\$17,500.00
B13	Site Restoration	LS	1	\$3,000.00	\$3,000.00
SUBTOTAL					\$368,634.80
15% Contingency					\$55,295.22
Total Estimate					\$423,930.02

Jomike Court, 40' Wide X 1300' Long					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ITEM TOTAL
E1	Mobilization/ Demobilization	LS	1	\$5,000.00	\$5,000.00
E2	Maintenance & Protection of Traffic	LS	1	\$5,000.00	\$5,000.00
E3	Traffic Flaggers	M.H.	100	\$58.03	\$5,803.00
E4	Construction Photographs	LS	1	\$1,000.00	\$1,000.00
E5	Site Clearing	LS	1	\$2,000.00	\$2,000.00
E6	Milling, Variable Depth 2"-3"+ Thick	S.Y.	6255	\$3.50	\$21,892.50
E7	Hot Mix Asphalt Surface Course, HMA 9.5M64, 2"± Thick	TON	705	\$80.00	\$56,400.00
E8	Hot Mix Asphalt Base Course, HMA 19M64, 4"+ Thick	TON	475	\$80.00	\$38,000.00
E9	Dense Graded Aggregate, 6" Thick	S.Y.	1565	\$9.00	\$14,085.00
E10	Excavation, Unclassified	C.Y.	525	\$45.00	\$23,625.00
E11	Handicap Ramps & Detectable, One Way	EA.	6	\$1,250.00	\$7,500.00
E12	Concrete or Belgian Block Curb (To Match Existing)	L.F.	2680	\$28.00	\$75,040.00
E13	Reconstruct Inlets	EA.	6	\$1,750.00	\$10,500.00
E14	Site Restoration	LS	1	\$3,000.00	\$3,000.00
SUBTOTAL					\$268,845.50
15% Contingency					\$40,326.83
Total Estimate					\$309,172.33

Barell Ave, 40' Wide X 2300' Long					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ITEM TOTAL
G1	Mobilization/ Demobilization	LS	1	\$5,000.00	\$5,000.00
G2	Maintenance & Protection of Traffic	LS	1	\$5,000.00	\$5,000.00
G3	Traffic Flaggers	M.H.	160	\$58.03	\$9,284.80
G4	Construction Photographs	LS	1	\$1,000.00	\$1,000.00
G5	Site Clearing	LS	1	\$2,000.00	\$2,000.00
G6	Milling, Variable Depth 2"-3"+ Thick	S.Y.	10120	\$3.50	\$35,420.00
G7	Hot Mix Asphalt Surface Course, HMA 9.5M64, 2"± Thick	TON	1140	\$80.00	\$91,200.00
G8	Hot Mix Asphalt Base Course, HMA 19M64, 4"+ Thick	TON	770	\$80.00	\$61,600.00
G9	Dense Graded Aggregate, 6" Thick	S.Y.	2540	\$9.00	\$22,860.00
G10	Excavation, Unclassified	C.Y.	850	\$45.00	\$38,250.00
G11	Concrete or Belgian Block Curb (To Match Existing)	L.F.	4200	\$28.00	\$117,600.00
G12	Reconstruct Inlets	EA.	8	\$1,750.00	\$14,000.00
G13	Site Restoration	LS	1	\$3,000.00	\$3,000.00
SUBTOTAL					\$406,214.80
15% Contingency					\$60,932.22
Total Estimate					\$467,147.02



Eastern Way, 36' Wide X 900' Long					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ITEM TOTAL
M1	Mobilization/ Demobilization	LS	1	\$5,000.00	\$5,000.00
M2	Maintenance & Protection of Traffic	LS	1	\$5,000.00	\$5,000.00
M3	Traffic Flaggers	M.H.	80	\$58.03	\$4,642.40
M4	Construction Photographs	LS	1	\$1,000.00	\$1,000.00
M5	Site Clearing	LS	1	\$2,000.00	\$2,000.00
M6	Milling, Variable Depth 2"-3"+ Thick	S.Y.	3600	\$3.50	\$12,600.00
M7	Hot Mix Asphalt Surface Course, HMA 9.5M64, 2"± Thick	TON	410	\$80.00	\$32,800.00
M8	Hot Mix Asphalt Base Course, HMA 19M64, 4"+ Thick	TON	820	\$80.00	\$65,600.00
M9	Dense Graded Aggregate, 6" Thick	S.Y.	2700	\$9.00	\$24,300.00
M10	Excavation, Unclassified	C.Y.	900	\$45.00	\$40,500.00
M11	Concrete or Belgian Block Curb (To Match Existing)	L.F.	800	\$28.00	\$22,400.00
M12	Reconstruct Inlets	EA.	2	\$1,750.00	\$3,500.00
M13	Site Restoration	LS	1	\$3,000.00	\$3,000.00
SUBTOTAL					\$222,342.40
15% Contingency					\$33,351.36
Total Estimate					\$255,693.76

Starke Road, 40 ' Wide X 3600' Long					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	ITEM TOTAL
Y1	Mobilization/ Demobilization	LS	1	\$5,000.00	\$5,000.00
Y2	Maintenance & Protection of Traffic	LS	1	\$5,000.00	\$5,000.00
Y3	Traffic Flaggers	M.H.	160	\$58.03	\$9,284.80
Y4	Construction Photographs	LS	1	\$1,000.00	\$1,000.00
Y5	Site Clearing	LS	1	\$2,000.00	\$2,000.00
Y6	Milling, Variable Depth 2"-3"+ Thick	S.Y.	16800	\$3.50	\$58,800.00
Y7	Hot Mix Asphalt Surface Course, HMA 9.5M64, 2"± Thick	TON	1890	\$80.00	\$151,200.00
Y8	Hot Mix Asphalt Base Course, HMA 19M64, 4"+ Thick	TON	2515	\$80.00	\$201,200.00
Y9	Dense Graded Aggregate, 6" Thick	S.Y.	8400	\$9.00	\$75,600.00
Y10	Excavation, Unclassified	C.Y.	2800	\$45.00	\$126,000.00
Y11	Handicap Ramps & Detectable, One Way	EA.	2	\$1,250.00	\$2,500.00
Y12	Handicap Ramps & Detectable, Two Way	EA.	1	\$2,250.00	\$2,250.00
Y13	Concrete or Belgian Block Curb (To Match Existing)	L.F.	5700	\$28.00	\$159,600.00
Y14	Reconstruct Inlets	EA.	15	\$1,750.00	\$26,250.00
Y15	Site Restoration	LS	1	\$3,000.00	\$3,000.00
SUBTOTAL					\$828,684.80
15% Contingency					\$124,302.72
Total Estimate					\$952,987.52



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455 16TH STREET DRAINAGE IMPROVEMENTS ~ CARLSTADT  
COST ESTIMATE\* ~ 05.16.14

SITE IMPROVEMENTS

SOIL EROSION AND SEDIMENT CONTROL

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	UNIT PRICE
1	Silt Fence	L.F.	500	\$2.00	\$1,000.00
2	Inlet Protection	UNIT	6	\$400.00	\$2,400.00
3	Scour-Hole	C.Y.	20	\$75.00	\$1,500.00
				<b>SUBTOTAL</b>	<b>\$4,900.00</b>

SITEWORK

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	UNIT PRICE
1	Mobilization/Demobilization	L.S.	1	\$5,000.00	\$5,000.00
2	Construction Layout	L.S.	1	\$1,500.00	\$1,500.00
3	Excavation, Unclassified	C.Y.	225	\$30.00	\$6,750.00
4	Hot Mix Asphalt 12.5M64 Surface Course	Tons	75	\$80.00	\$6,000.00
5	Hot Mix Asphalt 19M64 Base Course	Tons	150	\$80.00	\$12,000.00
6	Dense Graded Aggregate, 6" Thick	S.Y.	675	\$7.00	\$4,725.00
7	Misc. Concrete Reconstruction	S.Y.	75	\$50.00	\$3,750.00
8	Final Restoration/Cleanup	L.S.	1	\$2,500.00	\$2,500.00
				<b>SUBTOTAL</b>	<b>\$42,225.00</b>

STORM WATER SYSTEM IMPROVEMENTS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	UNIT PRICE
1	Concrete Headwall	UNIT	1	\$25,000.00	\$25,000.00
2	10' Concrete Manhole	UNIT	4	\$20,000.00	\$80,000.00
3	Class III 48" x 76" Elliptical Concrete Pipe	L.F.	575	\$850.00	\$488,750.00
4	TF-1 78" TideFlex Valves	UNIT	1	\$60,000.00	\$60,000.00
5	Storm Connections	UNIT	5	\$1,500.00	\$7,500.00
				<b>SUBTOTAL</b>	<b>\$661,250.00</b>

SUB-TOTAL \$708,375.00

CONTINGENCY (20%) \$141,675.00

TOTAL ESTIMATE \$850,050.00

\*NOTES:

1. Please note that this is only an estimate and not actual construction costs as material and labor fluctuate.
2. Pipe quantities based on Sketch Plat entitled "455 Sixteenth Street, Lot 1, Block 92, Borough of Carlstadt, Bergen County, New Jersey" Sheet 1 of 1 dated September 16, 2011 as prepared by Neglia Engineering Associates and map entitled "Site Plan, Sixteenth Street Co. Carlstadt, New Jersey, Addition to Distribution Center" prepared by Rouse Dubin & Ventura on January 1979 revised to August 17, 1979.
3. Cost estimate assumes that existing soils have the sufficient bearing capacity for installation of concrete elliptical pipe without pile foundations.
4. Cost estimate does not include possible groundwater remediation that may be required and would increase costs of construction.
5. Cost estimate can increase substantially if existing soils are found not to be classified as clean fill. Existing soils must be tested prior to bidding.